IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventors: LIND, Peter; TORSTEN, Sejlitz; VOGELI, Gabriel; and WOOD, Linda S.

Serial No.: Not yet assigned Group Art Unit: Not yet assigned

Filed: Concurrently herewith Examiner: Not yet assigned

Title: POLYNUCLEOTIDES ENCODING G PROTEIN-COUPLED RECEPTORS

EXPRESS MAIL INFORMATION
EXPRESS MAIL LABEL NO: EL964551694US

DATE OF DEPOSIT: October 28, 2003

Mail Stop: Patent Application Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

SIR:

Pursuant to 37 C.F.R. §§ 1.97 and 1.98 and to the duty of disclosure set forth in 37 C.F.R. § 1.56, the Examiner in charge of the above-identified application is requested to consider and make of record the references listed on the attached PTO-1449 and PTO-892 forms submitted herewith.

Although the information submitted herewith may be "material" to the Examiner's consideration of the subject application, this submission is not intended to constitute an admission that such information is "prior art" as to the claimed invention.

Copies of the references cited on the attached PTO-1449 and PTO-892 forms can be found in the parent case, U.S. Serial No. 09/852,165, filed May 8, 2001.

In accordance with 37 C.F.R. § 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made.

No first Official Action has yet been received and it is presumed that none has yet been mailed. No fee or certification is required. 37 C.F.R. § 1.97(b).

Respectfully submitted,

Daniel M. Scolnick, Ph.D.

Regis. No. 52,201t

Enclosures:

PTO-1449 (22 sheets) PTO-892 (2 sheets)

Dated: October 28, 2003

Cozen O'Connor 1900 Market Street Philadelphia, PA 19103

Tel: 215.665.2000 Fax: 215.665.2013

				Sheet 1 of 15
	Form	PTO-1449 Modified	Docket No. PHRM-0442	Serial No. 09/852,165
		f Patent and Publications Cited by Applicant everal sheets if necessary)	Applicant Peter Lind et al.	
_		Department of Commerce at and Trademark Office	Filing Date May 8, 2001	Group Not Yet Assigned
	ОТНЕ	ER DOCUMENTS (Including Author	or, Title, Date, Pertine	ent Pages, Etc.)
	AA	Akane, A., et al., "Direct dideoxy se PCR," Biotechniques, 1994, 16(2), 2		
	AB	Altschul, S. F., et al., "Basic local al 403-410	ignment search tool,".	I. Mol. Biol., 1990, 215,
	AC	American Veterinary Medical Assoc Medical Assoc., Panel on Euthanasia 1993, 202, 229-249		
	AD	AD Anderson, W. F., "Human gene therapy," Science, 1992, 256, 808-813		
	AE Anderson, W.F., "Human gene to 1998, 25-30		erapy," Nature, Supplement to Vol. 392(6679),	
	AF	Aujame, L., et al., "High affinity hum Antibodies, 1997, 8(4), 155-168	man antibodies by phag	ge display," Human
	AG	Aukrust, P., et al., "Enhanced levels patients with unstable angina; Possil involvement in the pathogenesis of a 100, 614-620	ble Reflection of T lym	phocyte and platelet
	AH	Ausubel, et al. (Eds.), "Chapter 6, So Protocols in Molecular Biology, 199		
*	AI .	Ausubel, et al. (Eds.), Current Proto 1999, John Wiley & Sons, Inc.	ocols in Molecular Biol	logy, New York, 1987-
	AJ	Baindur, N., et al., "Selective fluored Drug Dev. Res., 1994, 33, 373-398	scent ligands for pharm	nacological receptors,"
EXAM	IINER		DATE CONSIDER	RED

^{*}A copy of this reference will not be forwarded to the U.S. Patent and Trademark Office since it is believed to be too voluminous and easily obtainable by the Examiner.

				Silect 2 01 13
	Form	PTO-1449 Modified	Docket No. PHRM-0442	Serial No. 09/852,165
	f	f Patent and Publications Cited by Applicant everal sheets if necessary)	Applicant Peter Lind et al.	
		Department of Commerce nt and Trademark Office	Filing Date May 8, 2001	Group Not Yet Assigned
	OTHE	CR DOCUMENTS (Including Author	or, Title, Date, Pertin	ent Pages, Etc.)
	AK	Benoist C., et al., "In vivo sequence Nature, 1981, 290, 304-310	requirements of the S	V40 early promoter region,"
*	AL	 1987, Academic Press, Inc., San Diego, CA AM Birney, E., et al., "PairWise and SearchWise: finding the optimal alignment in simultaneous comparison of a protein profile against all DNA translation frame Nucleic Acids Res., 1996, 24(14), 2730-2739 AN Bohm, S. K., et al., "Regulatory mechanisms that modulate signalling by G-procoupled receptors," Biochem. J., 1997, 322, 1-18 		
	AM			
	AN			
	AO			
	AP	Breeden, L., et al., "Regulation of the Quant. Biol., 1985, Vol. L, Molecula	-	
	AQ	Broeck, V., "G-protein-coupled received, 189-268	eptors in insect cells,"	Int. Rev. Cytology, 1996,
	AR	Bruggemann, M., et al., "Strategies transgenic mice," Immunol. Today,		antibody repertoires in
	AS	Bruggemann, M., et al., "Production mice," Curr. Opin. Biotechnol., 199		epertoires in transgenic
	AT	Cane, D. E., et al., "Harnessing the and Mutations," Science, Oct. 1998		ombinations, Permutations,
EXAM	UNER		DATE CONSIDE	RED

^{*}A copy of this reference will not be forwarded to the U.S. Patent and Trademark Office since it is believed to be too voluminous and easily obtainable by the Examiner.

	(Use sev U.S. Do Patent	Patent and Publications Cited by Applicant veral sheets if necessary) epartment of Commerce and Trademark Office R DOCUMENTS (Including Autho Capecchi, M. R., "Altering the genor 1989, 244, 1288-1292	Applicant Peter Lind et al. Filing Date May 8, 2001 or, Title, Date, Pertin me by homologous re	Group Not Yet Assigned ent Pages, Etc.)		
	U.S. Do Patent OTHE	epartment of Commerce and Trademark Office R DOCUMENTS (Including Author) Capecchi, M. R., "Altering the genore	May 8, 2001 or, Title, Date, Pertin	Not Yet Assigned ent Pages, Etc.)		
	AU	Capecchi, M. R., "Altering the genor	or, Title, Date, Pertin	ent Pages, Etc.)		
	AU	Capecchi, M. R., "Altering the genor	me by homologous re	hination " Caianaa		
	AV					
		Chambers, R. C., et al., "Thrombin stimulates fibroblast procollagen production proteolytic activation of protease-activated receptor 1," <i>Biochem J.</i> , 1998, 333, 127				
	AW	Choo, Y., et al., "Promoter-specific activation of gene expression directed by bacteriophage-selected zinc fingers," J. Mol. Biol., 1997, 273, 525-532				
	AX	Cicala, C., et al., "Bronchoconstrict activating peptide in guinea-pigs in	or effect of thrombin vivo," Br. J. Pharmac	and thrombin receptor col, 1999, 126, 478-484		
	AY	Cirino, G., et al., "Thrombin functions as an inflammatory mediator through activation of its receptor," J. Exp. Med., 1996, 183, 821-827				
* AZ Cobbold, et al., "Aequorin measurements of cytoplasmic free calcium McCormack J.G., et al. (Eds.), Cellular Calcium: A Practical Appropriate Oxford, IRL Press		encal Approach, 1991,				
	BA	Cosman, D., et al., "Cloning sequence and expression of human interleukin-2 receptor," <i>Nature</i> , 1984 , <i>312</i> , 768				
	ВВ	Cosman, D., et al., "High Level Stable Expression of Human Interleukin-2 recin Mouse Cells Generates only Low Affinity Interleukin-2 Binding Sites," Mollmmunol., 1986, 23(9), 935-941				
	BC	Current Protocols in Molecular Bi	iology, 1999, John Wi	ley & Sons, New York		
	BD	Dayoff, in Atlas of Protein Sequen Research Foundation, Washington	ce and Structure, 197 , D.C., 5, 124	2, National Biochemical		
EXAMI	NER		DATE CONSID	ERED		

^{*}A copy of this reference will not be forwarded to the U.S. Patent and Trademark Office since it is believed to be too voluminous and easily obtainable by the Examiner.

				Sheet 4 of 15
	Form	PTO-1449 Modified	Docket No. PHRM-0442	Serial No. 09/852,165
		f Patent and Publications Cited by Applicant everal sheets if necessary)	Applicant Peter Lind et al.	
		Department of Commerce at and Trademark Office	Filing Date May 8, 2001	Group Not Yet Assigned
	OTHE	ER DOCUMENTS (Including Author	r, Title, Date, Pertine	nt Pages, Etc.)
	BE	Donovan, F. M., et al., "Thrombin in astrocytes via a pathway requiring ty 1997, 17(14), 5316-5326		
	BF	the nociceptin/orphanin FQ receptor, ORL1," J. Pharmacology and Experiment Therapeutics, 1997, 283(2), 735-741		
	BG			
	ВН	Drmanac, R., et al., "DNA Sequence Efficient Large-Scale Sequencing," S hybridization)		
	BI	Drmanac, S., et al., "Accurate sequer individual genomics," Nature Biotec	• •	
*	ВЈ	Eisenthal, R., et al. (Eds.) In Enzyme University Press	Assays, A Practical	Approach, 1992, Oxford
	BK	Fields, S., et al., "A novel genetic sys Nature, 1989, 340, 245-246	stem to detect protein-	protein interactions,"
	BL	Fields, S., et al., "The two-hybrid sys Trends in Genetics, 1994, 10(8), 286		ein-protein interactions,"
	BM Fischer, S. G., et al., "DNA fragments differing by single base-pair substitutions are separated in denaturing gradient gels: Correspondence with melting theory," <i>Proc. Natl. Acad. Sci. USA</i> , 1983, 80, 1579-1583			
	BN	Foote, J., et al., Antibody framework hypervariable loops," J. Mol. Biol., 1		e conformation of the
EXAMIN	TER		DATE CONSIDER	ED
EXAMIN	IER	hypervariable loops," J. Mol. Biol., 1	1	ED

^{*}A copy of this reference will not be forwarded to the U.S. Patent and Trademark Office since it is believed to be too voluminous and easily obtainable by the Examiner.

	Form	PTO-1449 Modified	Docket No. PHRM-0442	Serial No. 09/852,165
		f Patent and Publications Cited by Applicant everal sheets if necessary)	Applicant Peter Lind et al.	
		Department of Commerce at and Trademark Office	Filing Date May 8, 2001	Group Not Yet Assigned
	отн	ER DOCUMENTS (Including Author	r, Title, Date, Pertine	nt Pages, Etc.)
	ВО	Frandsen, E. K., et al., "A simple ultrand GMP in tissues," Life Sciences, 1		the assay of cyclic AMP
	BP	Friedmann, T., "Progress toward hun 1281	nan gene therapy," Sci	ence, 1 989 , <i>244</i> , 1275-
	BQ	George, S. E., et al., "Evaluation of a CRE-directed luciferase reporter gene assay an alternative to measuring cAMP accumulation," J. Biomolecular Screening, 199 2(4), 235-240		
	BR	Gerhardt, C. C., et al., "Functional characteristics of heterologously expressed 5-F receptors," Eur. J. Pharmacology, 1997, 334, 1-23		
	BS	Gill, J. S., et al., "Thrombin induced inhibition of neurite outgrowth from dorsal ganglion neurons," <i>Brain Res.</i> , 1998, 797, 321-327		
	ВТ	Grabham, P., et al., "Thrombin recep and reversal of stellation by distinct p phosphorylation," J. Neurochem, 199	oathways: involvemen	
	BU	Greisman, H. A., et al., "A general st proteins for diverse DNA target sites		• •
*	BV	Harlow, et al. (Eds.), Antibodies A Laboratory; Cold Spring Harbor, New		88, Cold Spring Harbor
	BW	Hauck, R. W., et al., "α-thrombin stinactivation of protease-activated recep		9 9
	BX	Henikoff, S., et al., "Amino acid sub Natl. Acad. Sci. USA, 1992, 89, 1091		protein blocks," Proc.
EXAMIN	ER		DATE CONSIDER	ED

^{*}A copy of this reference will not be forwarded to the U.S. Patent and Trademark Office since it is believed to be too voluminous and easily obtainable by the Examiner.

· · · · · · · · · · · · · · · · · · ·			311661 0 01 13
Form	PTO-1449 Modified	Docket No. PHRM-0442	Serial No. 09/852,165
•	f Patent and Publications Cited by Applicant everal sheets if necessary)	Applicant Peter Lind et al.	
	Department of Commerce at and Trademark Office	Filing Date May 8, 2001	Group Not Yet Assigned
ОТНЕ	CR DOCUMENTS (Including Autho	r, Title, Date, Pertine	nt Pages, Etc.)
* BY	BY Hershey, A. D., (Ed.), <i>The Bacteriophage Lambda</i> , 1973, Cold Spring Harbot Cold Spring Harbor, New York		
BZ	Hill, D. C., "Trends in development of rapid discovery of novel drugs," Cur		
CA	Hodgson, J., "Receptor screening and the search for new pharmacteuticals," Bio/Technology, 1992, 10, 973-980		
СВ	Hoogenboom H. R., "Designing and optimizing library selection strategies for generating high-affinity antibodies," TIBTECH, 1997, 15, 62-70		
СС	Jayawickreme, C. K., et al., "Gene ex throughput screens, Current Opinion	-	
CD	Jones, P. T., et al., "Replacing the co antibody with those from a mouse,"		
СЕ	Karlin, S., et al., "Applications and s molecular sequences," <i>Proc. Natl. Ad</i>		
CF			
CG	Kieleczawa, J., et al., "DNA sequence hexamers," Science, 1992, 258, 1787		with strings of contiguous
СН	Kim, J., et al., "Design of TATA box regulation of gene expression," <i>Proc</i>		
EXAMINER		DATE CONSIDER	ED

^{*}A copy of this reference will not be forwarded to the U.S. Patent and Trademark Office since it is believed to be too voluminous and easily obtainable by the Examiner.

		,	Blicct / 01 13
Forn	n PTO-1449 Modified	Docket No. PHRM-0442	Serial No. 09/852,165
	of Patent and Publications Cited by Applicant several sheets if necessary)	Applicant Peter Lind et al.	
	Department of Commerce ent and Trademark Office	Filing Date May 8, 2001	Group Not Yet Assigned
ОТН	ER DOCUMENTS (Including Author	r, Title, Date, Pertine	nt Pages, Etc.)
CI	Kruse et al. (eds.), in Tissue Culture,	Academic Press, 1973	
CJ	Kuntzweiler, T. A., et al., "Rapid ass acetylcholine receptors using calcium Research, 1998, 44(1), 14-20	-	
CK	CK Lajiness et al., "D2 dopamine receptor stimulation of mitogenesis in transfected chinese hamster ovary cells: relationship to dopamine stimulation of tyrosine phosphorylations", J. Pharm. Exp. Ther., 1993, 267(3), 1573-1581		
CL	Lehninger, "Chapter 4, The amino acid building blocks of proteins," <i>Biochemistry</i> , Ed., 1975, Worth Publishers, Inc., New York, New York, 71-77		
СМ	CM Lin, A. H., et al., "The oxazolidinone eperezolid binds to the 50S ribosomal subuni and competes with binding of chloramphenicol and lincomycin," Antimicrobial Agents and Chemotherapy, 1997, 41(10), 2127-2131		
CN	CN Liu, Q., et al., "Design of polydactyl zinc-finger proteins for unique addressing with complex genomes," <i>Proc. Natl. Acad. Sci. USA</i> , 1997, 94, 5525-5530		
СО	Luckow, V. A., et al., "Trends in the Bio/Technology, 1988, 6, 47-55	development of baculo	ovirus expression vectors,"
СР	CP Maxam, A. M., et al., "Sequencing end-labeled DNA with bse-secific chemical cleavages", Meth. Enzymol., 1977, Vol. 65, 499-560		
CQ	McColl, D. J., et al., "Structure-based Natl. Acad. Sci. (USA), 1997, Vol. 96		nding zinc finger", Proc.
CR			
EXAMINER		DATE CONSIDER	ED
<u> </u>			

^{*}A copy of this reference will not be forwarded to the U.S. Patent and Trademark Office since it is believed to be too voluminous and easily obtainable by the Examiner.

				Sheet 8 01 13
	Form	PTO-1449 Modified	Docket No. PHRM-0442	Serial No. 09/852,165
		f Patent and Publications Cited by Applicant everal sheets if necessary)	Applicant Peter Lind et al.	
		Department of Commerce nt and Trademark Office	Filing Date May 8, 2001	Group Not Yet Assigned
	отні	ER DOCUMENTS (Including Autho	r, Title, Date, Pertine	nt Pages, Etc.)
	CS	Mirzabekov, A. D., "DNA sequencing and a diagnostic tool?", TIBTECH,		megasequencing method
	CT Morrison, et al., "Genetically engineered antibody molecules," Dixon, F.J., (Eds.), Adv. Immunol., 1989, 44, 65-92			es," Dixon, F.J., et al.
	CU	Murphy, A. J., et al., "From DNA to drugs: the orphan G-protein coupled recept Cur. Opinion Drug Disc. Dev., 1998, 1(2), 192-199		
	CV	Myers, P., "Will combinatorial chemistry deliver real medicines," Curr. Opin. Biotechnology, 1997, 8, 701-707		
	CW	Myers, R. M., et al., "Detection of single base substitutions by ribonuclease cleava at mismatches in RNA: DNA duplexes", <i>Science</i> , 1985, Vol. 230,1242-1246		
	CX	Nakayama, G. R., "Microplate assays for high-throughput screening," Cur. Opinion Drug Disc. Dev., 1998, 1(1), 85-91		
*	CY	O'Rielly, et al. (Eds.), Baculovirus Expression Vectors: A Laboratory Manual, 1992 W.H. Freeman and Company, New York		
	CZ	Okayama, H., et al., "A cDNA cloning in mammalian cells," Mol. Cell. Biol.	-	-
	DA Orita, M., et al., "Detection of polymorphisms of human DNA by gel electrophores as single-strand conformation polymorphisms," <i>Proc. Natl. Acad. Sci. USA</i> , 1989, 8 2766-2770			• •
*	DB	Osol, A. (Ed.), Remington's Pharma	ceutical Sciences, 16 th	Ed., 1980
EXAM	INER		DATE CONSIDERED	
			1	

^{*}A copy of this reference will not be forwarded to the U.S. Patent and Trademark Office since it is believed to be too voluminous and easily obtainable by the Examiner.

			Sheet 9 01 13
Form	PTO-1449 Modified	Docket No. PHRM-0442	Serial No. 09/852,165
	f Patent and Publications Cited by Applicant	Applicant Peter Lind et al.	
(Use se	everal sheets if necessary)		
	Pepartment of Commerce and Trademark Office	Filing Date May 8, 2001	Group Not Yet Assigned
ОТНЕ	R DOCUMENTS (Including Autho	r, Title, Date, Pertine	nt Pages, Etc.)
DC	Padlan, E. A., "A possible procedure variable domains while preserving the <i>Immunol.</i> , 1991 , <i>28(4/5)</i> , 489-498		• • •
DD	Parodi, L. A., et al., "A consensus procedure for predicting the location of α-helica transmembrane segments in proteins," Comput. Appl. Biosci., 1994, 10(5), 527-53.		
DE	Pastinen, T., et al., "Minisequencing: A specific tool for DNA analysis and diagnostics on oligonucleotide arrays," Genome Res., 1997, 7, 606-614		
DF	Pausch, M. H., "G-protein-coupled receptors in saccharomyces cerevisiae: high-throughput screening assays for drug discovery," <i>Trends in Biotechnology</i> , 1997, 487-494		
DG	Pease, A. C., et al., "Light-generated analysis," Proc. Natl. Acad. Sci. USA		
DH	Pindon, A., et al., "Thrombin-induce activation of protein kinase C β -1," β	_	
DI	Rader, C., et al., "Phage display of considerable, 1997, 8, 503-508	ombinational antibody	libraries," Curr. Opin.
DJ	Ramsay, G., "DNA chips: state-of-th	ne-art," Nature Biotech	nology, 1999 , 16, 40-48
DK	Riechmann, L., et al., "Reshaping h	uman antibodies for th	erapy," Nature, 1988, 332,
DL	Riesner, D., et al., "Temperature-gra Analysis of conformational transition interactions," <i>Electrophoresis</i> , 1989,	ns, sequence variations	
EXAMINER		DATE CONSIDER	ED

^{*}A copy of this reference will not be forwarded to the U.S. Patent and Trademark Office since it is believed to be too voluminous and easily obtainable by the Examiner.

			Sheet 10 01 13
Form I	PTO-1449 Modified	Docket No. PHRM-0442	Serial No. 09/852,165
Ci	Patent and Publications ited by Applicant reral sheets if necessary)	Applicant Peter Lind et al.	
•	partment of Commerce and Trademark Office	Filing Date May 8, 2001	Group Not Yet Assigned
OTHER	R DOCUMENTS (Including Author	r, Title, Date, Pertine	nt Pages, Etc.)
	Roberts, E., et al., "Potassium permassafe and effective substitute for osmicleavage of mismatch," Nucl. Acids I	um tetroxide in solid-p	hase fluorescent chemical
1 1	Rogers, M. V., "Light on high-throughput screening: fluorescence-based assay echnologies," <i>Drug Discovery Today</i> , 1997, 2(4), 156-160		scence-based assay
	Rowley, G., et al., "Ultrarapid mutation detection by multiplex solid-phase chemical leavage," <i>Genomics</i> , 1995, 30, 574-582		olex solid-phase chemical
	Sambrook, et al., <i>Molecular Cloning: A Laboratory Manual</i> , 2 nd Ed., 1989, Cold Spring Harbor press, Cold Spring Harbor, New York		
1 - 1	Sambrook, et al., (Eds.), <i>Molecular Cloning: A Laboratory Manual</i> , 1989, Cold Spring Harbor Laboratory Press: Cold Spring Harbor, New York, 9.47-9.51		
	Sambrook, et al., Antibodies A Laboratory Manual, 1989, Cold Spring Harbor Laboratory; Cold Spring Harbor, New York		
	Sanger, F., et al., "DNA sequencing Acad. Sci. USA, 1977, 74(12), 5463-5		g inhibitors," Proc. Natl.
1 1	Schaefer, A. J. et al., "DNA variation Biotechnology, Jan. 1998, 16, 33-39		an genetics," Nature
	Schroeder, K. S., et al., "FLIPR: A new instrument for accurate, high throughput optical screening," J. Biomolecular Screening, 1996, 1(2), 75-80		
	DV Segal, D. J., et al., "Toward controlling gene expression at will: Selection and des of zine finger domains recognizing each of the 5'-GNN-3' DNA target sequences," <i>Proc. Natl. Acad. Sci. USA</i> , 1999, 96, 2758-2763		
EXAMINER		DATE CONSIDER	ED

^{*}A copy of this reference will not be forwarded to the U.S. Patent and Trademark Office since it is believed to be too voluminous and easily obtainable by the Examiner.

Form	PTO-1449 Modified	Docket No. PHRM-0442	Serial No. 09/852,165
	of Patent and Publications Cited by Applicant everal sheets if necessary)	Applicant Peter Lind et al.	
	Department of Commerce nt and Trademark Office	Filing Date May 8, 2001	Group Not Yet Assigned
ОТН	ER DOCUMENTS (Including Author	r, Title, Date, Pertine	ent Pages, Etc.)
DW	Shumaker, J. M., et al., "Mutation de Mutat., 1996, 7, 346-354	tection by solid phase	primer extension," Hum.
DX	Sim, L. J., et al., "Identification of op [35S]GTPγS binding in rat brain," Ne		
DY	DY Smith, T. F., et al., "Comparison of biosequences," Adv. Appl. Math., 1981, 2, 48, 489		
DZ	Z Smith-Swintosky, V. L., et al., "Protease-activated receptor-2 (PAR-2_ is present in the rat hippocampus and is associated with neurodegeneration," J. Neurochem, 199 69, 1890-1896		
EA	Sonnhammer, E., et al., "A hidden markov model for predicting transmembrane helices in protein sequences," Glasgow, J., et al. (Eds.), ISMB, 1998, 6, 175-182		
ЕВ	Stables, J., et al., "A bioluminescent protein-coupled receptor," Analytica		
EC	Stratowa, C., et al., "Use of a lucifer linked receptors," Current Opinion i		
ED	ED Strosberg, A. D., et al., "Structure/function relationship of proteins belonging to the family of receptors coupled to GTP-binding proteins,," Eur. J. Biochem., 1991, 196(1), 1-10		
EE	Strosberg, et al., "Functional express Pharmacological Sciences, 1992, 13		croorganisms," Trends in
EF	Suidan, H. A., et al., "The thrombin Hemost, 1996, 22(2), 125-133	receptor in the nervo	us system," Semin Thromb
EXAMINER		DATE CONSIDE	RED

^{*}A copy of this reference will not be forwarded to the U.S. Patent and Trademark Office since it is believed to be too voluminous and easily obtainable by the Examiner.

<u>'</u>	Sheet 12 of 15	
Docket No. PHRM-0442	Serial No. 09/852,165	
Applicant Peter Lind et al.		
Filing Date May 8, 2001	Group Not Yet Assigned	
or, Title, Date, Pertir	nent Pages, Etc.)	
EG Summers, et al., A Manual of Methods for Baculovirus Vectors and Insect Cell Culture Procedures, Texas Agricultural Experimental Station Bulletin No. 1555 1987, 2-46		
Sutherland, E. W., et al., "Some aspects of the biological role of adenosine 3',5'-monophosphate (cyclic AMP)," Circulation, 1968, 37, 279-306		
Sweetnam, P. M., et al., "The role of receptor binding in drug discovery," J. Natural Products, 1993, 56(4), 441-455		
Tempest, P. R., et al., "Reshaping a human monoclonal antibody to inhibit human respiratory syncytial virus infection in vivo," Bio/Technology, 1991, 9, 266-271		
, "The cloned thrombin receptor is necessary and sufficient for nitogen-activated protein kinase and mitogenesis in mouse lung Biol. Chem., 1996, 271, 21536-21541		
Trejo, J., et al., "The cloned thrombin receptor is necessary and sufficient for activation of mitogen-activated protein kinase and mitogenesis in mouse lung fibroblasts," J. Biol. Chem., 1996, 271, 21536-21541		
Turgeon, V. L., et al., "Thrombin perturbs neurite outgrowth and induces apoptotic cell death in enriched chick spinal motoneuron cultures through caspase activation," <i>Neurosci</i> , 1998, 18(17), 6882-6891		
thrombin-induced cald	cium signals in rat	
ıman antibodies: Graf 1536	ting an antilysozyme	
entific American, 1990	, 68-84 (pages 73-80 and 83	
DATE CONSIDE	RED	
	PHRM-0442 Applicant Peter Lind et al. Filing Date May 8, 2001 or, Title, Date, Pertinods for Baculovirus Varial Experimental States of the biological reulation, 1968, 37, 27 of receptor binding in a sin vivo," Bio/Technological receptor is necessare in kinase and mitoger (71, 21536-21541) in receptor is necessare in kinase and mitoger (71, 21536-21541) erturbs neurite outgrown ottoneuron cultures the continuous cultures	

^{*}A copy of this reference will not be forwarded to the U.S. Patent and Trademark Office since it is believed to be too voluminous and easily obtainable by the Examiner.

Form	PTO-1449 Modified	Docket No. PHRM-0442	Serial No. 09/852,165	
(Patent and Publications Cited by Applicant everal sheets if necessary)	Applicant Peter Lind et al.		
U.S. D Paten	Department of Commerce at and Trademark Office	Filing Date May 8, 2001	Group Not Yet Assigned	
OTHE	R DOCUMENTS (Including Autho	r, Title, Date, Pertii	nent Pages, Etc.)	
EQ	White, M. B., et al., "Detecting single polymorphisms," Genomics, 1992, I	le base substitutions a 2, 301-306	as heteroduplex	
ER	ER Wieboldt, R., et al., "Immunoaffinity ultrafiltration with ion spin screening small-molecule libraries," Anal. Chem., 1997, 69(9),			
ES	Williams, M., "Receptor binding in the drug discovery process," Medicinal R Reviews, 1991, 11(2), 147-184			
ЕТ	Wu, H., et al., "Building zinc finger Proc. Natl. Acad. Sci. USA, 1995, 9.	s by selection: toward 2, 344-348	d a therapeutic application,"	
FM	Luckow, V. A., et al., "High Level I Autographa californica Nuclear Poly 1989, 170, 31-39	Expression of Nonfus yhedrosis Virus Expr	sed Foreign Genes with ession Vectors," Virology,	
			· .	
			· ·	
EXAMINER		DATE CONSID	ERED	

^{*}A copy of this reference will not be forwarded to the U.S. Patent and Trademark Office since it is believed to be too voluminous and easily obtainable by the Examiner.

Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary)				Docket No. PHRM-0442	Serial No 09/852,1	
				Applicant Peter Lind et al.		
		epartment of Comme and Trademark Off		Filing Date May 8, 2001	Group Not Yet	Assigned
		U.	S. PATENT D	OCUMENTS		
Examiner Initial		Document No.	Date	Name	Class	Subclass
	EU	4,399,216	08/16/83	Axel, et al.	435	6
	EV	4,683,195	07/28/87	Mullis, et al.	435	6
	EW	4,683,202	07/28/87	Mullis	435	6
	EX	4,879,236	11/07/89	Smith, et al.	435	235
	EY	5,202,231	04/13/93	Drmanac, et al.	435	6
	EZ	5,521,065	05/28/96	Whiteley, et al.	435	6
	FA	5,585,277	12/17/96	Bowie, et al.	436	518
	FB	5,837,832	11/17/98	Chee, et al.	536	22.1
		FORE	EIGN PATENT	F DOCUMENTS		
Examiner Initial		Document No.	Date	Country	YES Ti	ranslation NO
	FC	WO 91/18982	12/12/91	PCT		
	FD	WO 91/09955	07/11/91	PCT		
	FE	WO 92/20808	11/26/92	PCT		
	FF	WO 93/11236	06/10/93	PCT		
	FG	WO 94/12650	06/09/94	PCT		
EXAMINE	R			DATE CONSIDE	ERED	

				Docket No. PHRM-0442	Serial No. 09/852,165		
				Applicant Peter Lind et al.			
,		epartment of Commerce and Trademark Office		Filing Date May 8, 2001	Group Not Yet As	ssigned	
		U. S.	PATENT DO	CUMENTS			
Examiner Initial		Document No.	Date	Name	Class	Subclass	
					-		
						:	
	<u> </u>	FOREI	GN PATENT I	DOCUMENTS			
Examiner Initial		Document No.	Date	Country		nslation NO	
	FH	WO 95/20652	08/03/95	PCT			
	FI	WO 96/22976	08/01/96	PCT			
	FJ	WO 97/09433	03/13/97	PCT			
	FK	WO 98/37177	08/27/98	PCT			
	FL	0 367 566 A	05/09/90	EPO			
EXAMINE	R			DATE CONSIDER	ED		

Form	PTO-1449 Modified	Docket No. PHRM-0442/0023regUS	Serial No. 09/852,165	
	f Patent and Publications Cited by Applicant everal sheets if necessary)	Applicant Peter Lind, et al.		
	Department of Commerce nt and Trademark Office	Filing Date May 8, 2001	Group 1645	
ОТНІ	ER DOCUMENTS (Including Author	or, Title, Date, Pertinent Pag	ges, Etc.)	
FM	Liu, C. et al., "Cloning and Pharmac receptor (H4) expressed in bone ma 420-426	_		
FN	Tardivel-Lacombe, J. et al., "Clonin histamine H3 receptor: evidence for 755-759			
FO	International Search Report Dated N PCT/US 01/14750	November 15, 2001 from PCT	Application	
	,			
EXAMINER		DATE CONSIDERED		

List of Patent and Publications				Docket No. PHRM-0442/0023regUS	1		
		epartment of Comme and Trademark Office		Filing Date May 8, 2001	Group 1645		
,		U. S	S. PATENT D	OCUMENTS			
Examiner Document No. Date		Name	Class	Subclass			
		FORE	IGN PATEN	T DOCUMENTS	L	<u> </u>	
Examiner Initial		Document No.	Date	Country	Tran YES	slation NO	
	FP	EP 1 043 395 A1	10/11/00	EPO		·	
	FQ	WO 99/33978	07/08/99	PCT	X(abstract		
	FR	WO 00/22131	04/20/00	PCT			
EXAMINE	2			DATE CONSIDERED			

Sheet 1 of 2

Form PTO-1449 Modified	Docket No. PHRM-0442/ 00231regUS	Serial No. 09/852,165	
List of Patent and Publications Cited by Applicant (Use several sheets if necessary)	Applicant Peter Lind, et al.		
U.S. Department of Commerce Patent and Trademark Office	Filing Date May 8, 2001	Group 1645	
OTHER DOCUMENTS (Including A	uthor, Title, Date, Perti	nent Pages, Etc.)	
Marchese, A., et al., "Novel GP boundaries of physiology and pl			
		·p. •	
EXAMINER	DATE CONSIDE	CRED	

		· · · · · · · · · · · · · · · · · · ·				Sheet 2 of 2	
Form PTO-1449 Modified				Docket No. PHRM-0442/ 00231regUS	PHRM-0442/ 09/852,165		
	(Patent and Publication Publication Patent Page 1981 Page		Applicant Peter Lind, et al.			
		epartment of Comm t and Trademark Off		Filing Date May 8, 2001	Group 1645		
		U.	S. PATENT D	OCUMENTS			
Examiner Initial		Document No.	Date	Name	Class	Subclass	
						**	
						·	
			 				
		FORE	IGN PATENT	DOCUMENTS		· · · · · · · · · · · · · · · · · · ·	
Examiner Initial			Translation YES NO				
	151	WO 99/32519	07/01/99	PCT			
				-		<u> </u>	
EXAMINE	EXAMINER				RED		

Sheet 1 of 1

Form PTO-1449 Modified	Docket No. PHRM-0442/ 00231regUS	Serial No. 09/852,165	
List of Patent and Publications Cited by Applicant (Use several sheets if necessary)	Applicant Peter Lind, et al.		
U.S. Department of Commerce Patent and Trademark Office	Filing Date May 8, 2001	Group 1645	
OTHER DOCUMENTS (Including Author	, Title, Date, Pertine	nt Pages, Etc.)	
151 Ebi, et al., "Homo sapiens BAC clone Database EMBL Online, September 2 XP002204125, 1 page (Abstract)	e RP11-510C1 from 2,	complete sequence,"	
EXAMINER	DATE CONSIDER	ED	

Form	PTO-1449 Modified	Docket No. PHRM-0442/ 00231regUS	Serial No. 09/852,165	
_ (Patent and Publications Cited by Applicant everal sheets if necessary)	Applicant Peter Lind, et al.		
U.S. D	epartment of Commerce t and Trademark Office	Filing Date May 8, 2001	Group 1645	
ОТНЕ	R DOCUMENTS (Including Auth	or, Title, Date, Pert	inent Pages, Etc.)	
152	Birren, B., et al., "Homo sapiens clunordered pieces," <i>Database EMBI</i> 1999, XP002207517, 23 pages	one RP11-15H8, wor L Online, Accession l	king draft sequence, 31 No. AC011780, October 18,	
153	Raming, K., et al., "Identification of a novel G-protein coupled receptor express distinct brain regions and a defined olfactory zone," <i>Receptors and Channels</i> , 1 141-151			
154	Wallis, J., "Human DNA sequence Database EMBL Online, Accession pages	e from clone RP5-116 n No. AL355310, Ma	0K1 on chromosome 1," by 5, 2000 , XP-002207518, 17	
		· · · · · · · · · · · · · · · · · · ·		
EXAMINER	1	DATE CONSII	DERED	

List of Patent and Publications				Docket No. PHRM-0442/ 00231regUS	M-0442/ 09/852,165	
				Applicant Peter Lind, et al.	Applicant	
U.S. Department of Commerce Patent and Trademark Office			Filing Date May 8, 2001	Group 1645		
		U. S	S. PATENT D	OCUMENTS		
Examiner Initial		Document No.	Date	Name	Class	Subclass
		FORE	EIGN PATEN	T DOCUMENTS		
Examiner Initial		Document No.	Date	Country	i i	nslation NO
	155	8-245697	09/24/96	Japan	X abstract	<u> </u>
	156	WO 96/05302	02/22/96	PCT		
	157	WO 01/36471	05/25/01	PCT		
	158	WO 01/48188	05/07/01	PCT	X abstract	
	159	WO 01/70812	09/27/01	PCT		1
	160	WO 01/70967	09/27/01	PCT		
	161	WO 01/72836	10/04/01	PCT		
EXAMINE	ER			DATE CONSI	DERED	

Notice of Referenc s Cited

Application/Control No.

O9/852,165

Examiner

Robert Landsman

Applicant(s)/Patent Under
Reexamination
LIND ET AL.

Art Unit
Page 1 of 2

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
	A	US-5,882,893	03-1999	Goodearl	
	В	US-6,204,017	03-2001	Behan et al.	
	C	US-			
	D	US-			
	E	US-			
	F	US-			
	G	US-			
	H	US-			
	_	US-			
	J	US-			
	Κ	US-			
	L	US-			
	М	US-			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification			
	2								
	0								
	Р	•							
	Q								
	R								
	S								
	Т								

NON-PATENT DOCUMENTS

	TOTAL		
*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)	
	U	Skolnick et al. Trends in Biotech. 18:34-39, 2000.	
	٧	Bork P. Genome Research 10:398-400, 2000.	
	w	Doerks et al. Trends in Genetics 14:248-250, 1998.	
	x	Smith et al. Nature Biotechnology 15:1222-1223, 1997.	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).) Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

Parse.

U.S. Patent and Trademark Office PTO-892 (R v. 01-2001)

Notice of Ref rences Cited

Part of Paper No. 14

4/25/03

Application/Control No. Applicant(s)/Patent Under Reexamination 09/852,165 LIND ET AL. Notic of Referenc s Cited Art Unit **Examiner** Page 2 of 2 1647 Robert Landsman **U.S. PATENT DOCUMENTS** Document Number Date Classification Name MM-YYYY Country Code-Number-Kind Code Α US-US-В С US-D US-Ε US-US-F G USн US-US-F US-J K US-USı US-**FOREIGN PATENT DOCUMENTS Document Number** Date Country Name Classification Country Code-Number-Kind Code MM-YYYY Ν 0 Р Q R S **NON-PATENT DOCUMENTS** Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages) U Brenner SE. Trends in Genetics 15:132-133, 1999. Bork, et al. Trends in Genetics 12:425-427, 1996. Ayala FJ and Kiger JA. Multiple Alleles. In Modern Genetics. The Benjamin/Cummings Publishing Co., Inc. Reading. W Massachusetts. pp45-48, 1980.

'A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)

ause

Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

J.S. Patent and Trademark Office FTO-892 (R v. 01-2001)

Notice of References Cited

Rieger R, et al. Glossary of Genetics: Classical and Molecular. 5th ed. Springer-Verlag. New York. pp 16-17, 1991.

Part of Paper No. 14

4/25/03